

**What is claimed is:**

1. An air blower comprising:

a case body having an air suction mouth formed at least one side surface thereof and an outlet

5 formed at a peripheral wall thereof;

a motor which is installed into the case body, having a fluid dynamic bearing; and

an impeller which is fixed to a rotation member of the motor in order to locate at an outer circumferential part of the motor, suctioning air from the air suction mouth by rotating and discharging from the outlet.

10 2. An air blower comprising:

a case body having an air suction mouth formed at least one side surface thereof and an outlet formed at a peripheral wall thereof;

a motor which is installed into the case body, having a fluid dynamic bearing;

15 an impeller which is fixed to a rotation member of the motor in order to locate at an outer circumferential part of the motor, suctioning air from the air suction mouth by rotating and discharging from the outlet; and

means for blocking an extreme movement of the impeller to a thrust direction and preventing to hit the case body.

3. An air blower comprising:

20 a case body having an impeller storage room;

a motor which is installed into the impeller storage room of the case body, having a fluid dynamic bearing;

an impeller which is fixed to a rotation member of the motor in order to locate at an outer circumferential part of the motor;

25 an intake silence channel including at least one silence room and an air suction mouth which are formed in the case body, sucking air into the impeller storage room by rotation of the impeller; and

a discharge channel provided at the case body, discharging air which is sucked inside the impeller storage room to exterior portion by rotation of the impeller.

4. An air blower comprising:

a case body having an impeller storage room;

5 a motor which is installed into the impeller storage room of the case body, having a fluid dynamic bearing;

an impeller which is fixed to a rotation member of the motor in order to locate at an outer circumferential part of the motor;

means for blocking an extreme movement of the impeller to a thrust direction and  
10 preventing to hit the case body;

an intake silence channel including at least one silence room and an air suction mouth which are formed in the case body, sucking air into the impeller storage room by rotation of the impeller; and

a discharge channel provided at the case body, discharging air which is sucked inside the impeller storage room to exterior portion by rotation of the impeller.

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